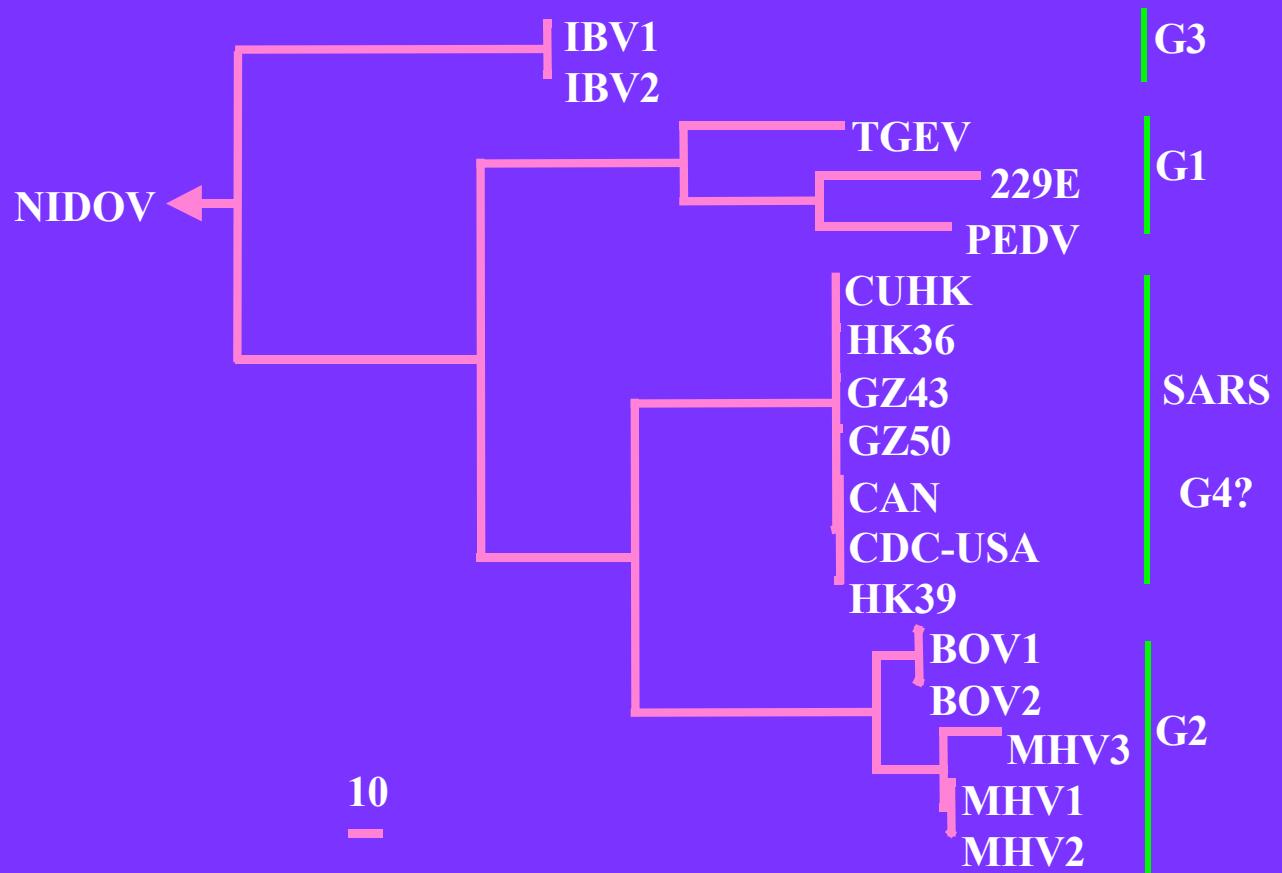


A SARS-like coronavirus found in animals: the precursor of SARS virus?

The University of Hong Kong
Shenzhen CDC









Sampling





Sampling

May 7, 03



Sampling





HPC, Himalayan palm civet (*Paguma larvata*); HB, Hog-backed civet (*Civettictis civetta*)

Himalayan palm civet



Raccoon-dog



6, PCR 4+
isolation 4

1, PCR +,
isolation 1

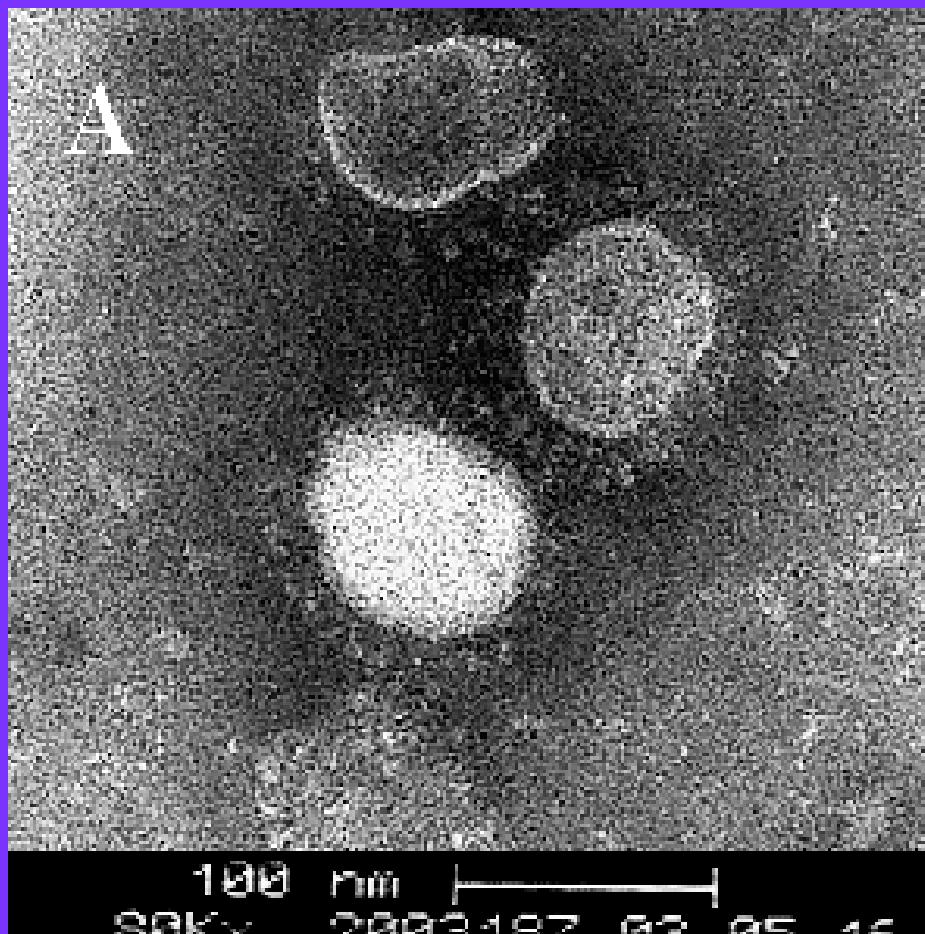
Neutralizing antibody titer to SZ16

SZ12, CFB 160

SZ13, RC >640

SZ17, HPC >640

May 14, 2003



100 nm
50K_x 2003187 03-05-16

Coronavirus

Coronavirus inside cells

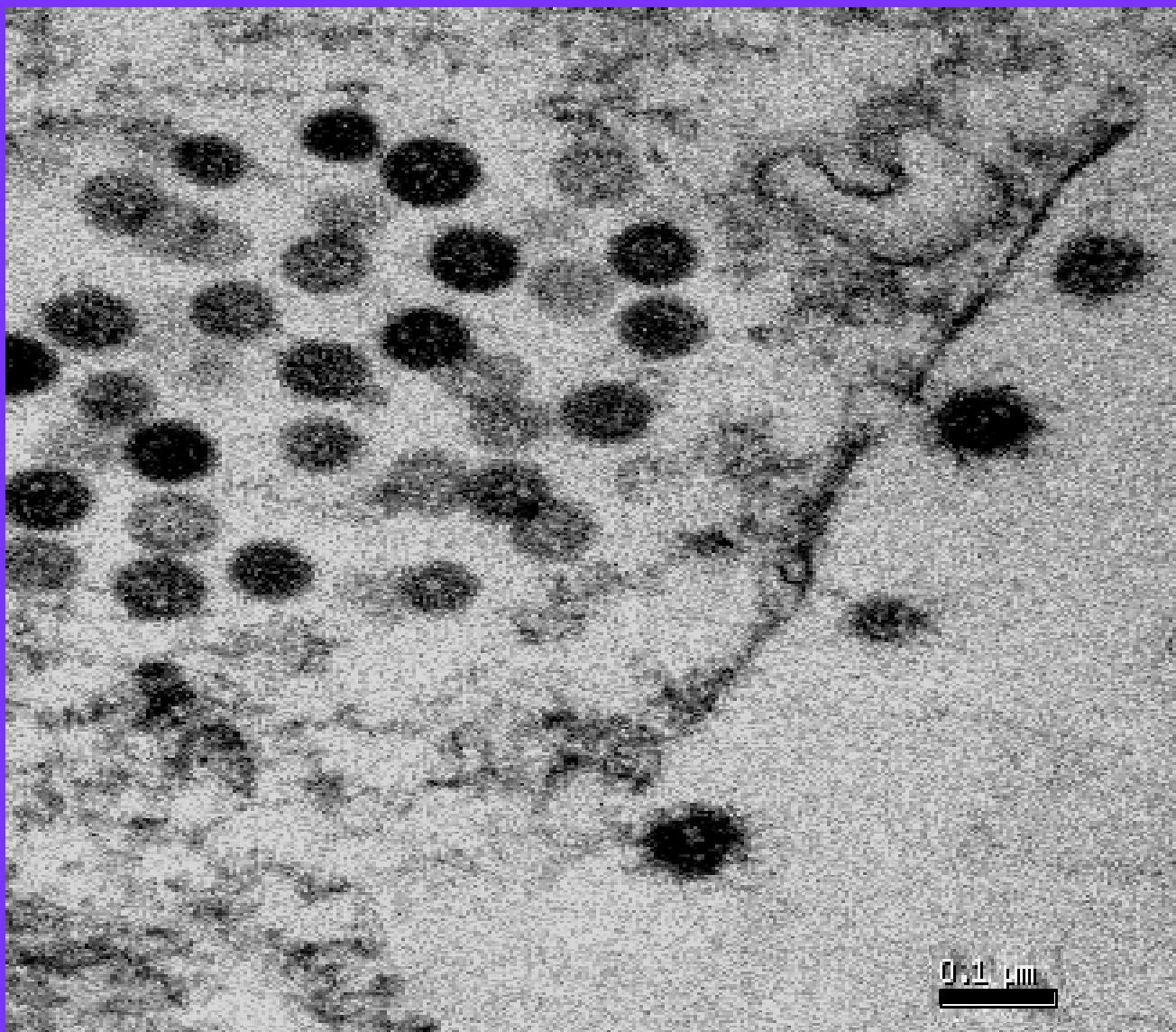
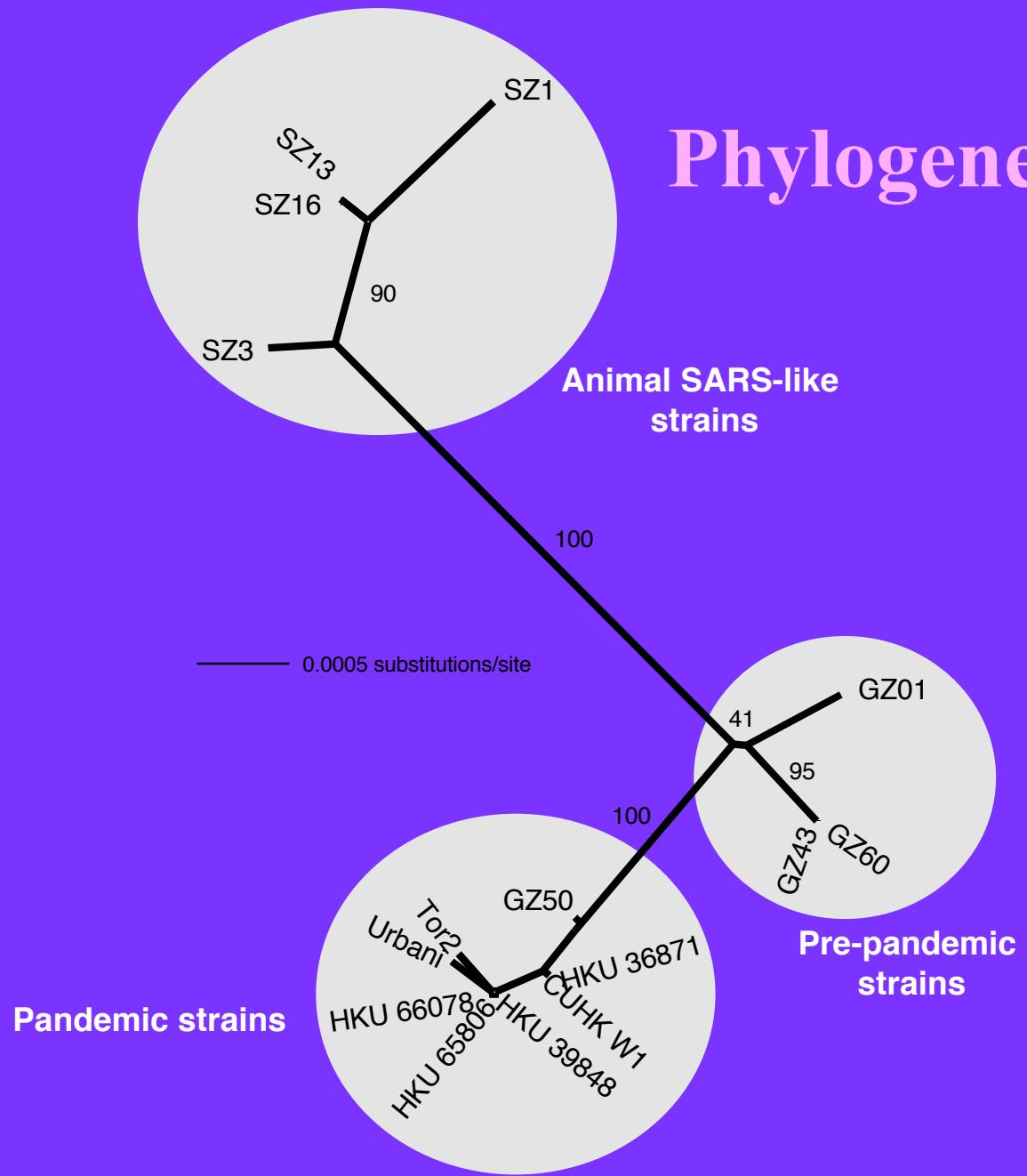


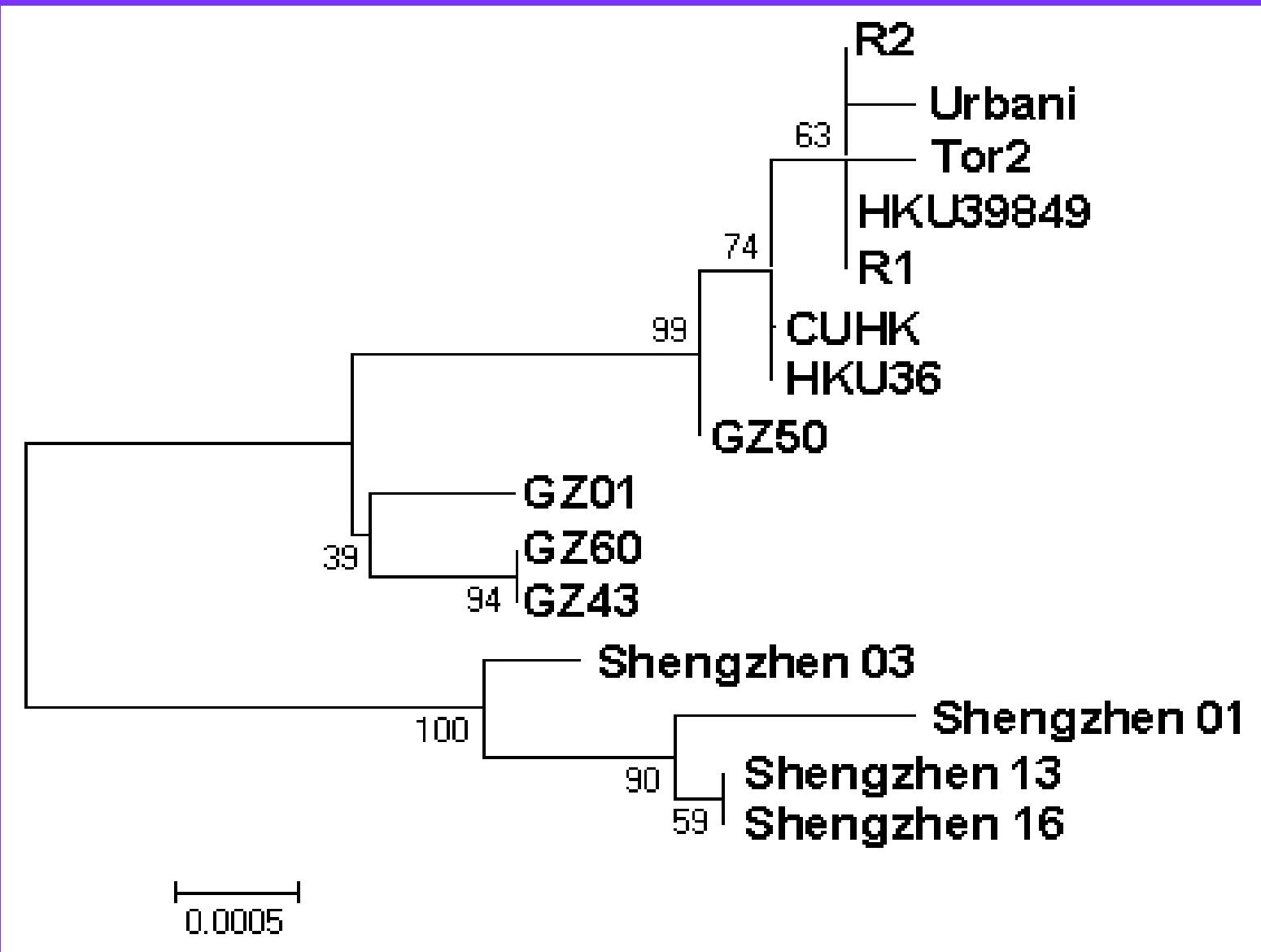
Table Nucleotide and amino acid substitutions of the SARS-like coronaviruses and SARS-Cov

SM	A (K)T(L)A(K)C(S)
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CC TACTGGTTAC CAACCTGAAT GGAATAT

Phylogenetic tree





Summary

1. SCoV-like viruses are prevalent in different types of wild animals in the retail market.
2. These animals together mankind forming a new ecosystem.
3. SARS is zoonosis.

Acknowledgements

- 1. NIAID, Grant 195357**
- 2. Staff at Shenzhen CDC**
- 3. Staff at Dept. of Microbiology
The Univ. of Hong Kong**